AMENDMENTS TO THE CLAIMS:

Without prejudice, this listing of claims will replace all prior versions and listings of the claims in the present application:

LISTING OF CLAIMS:

- 1-6. (Canceled).
- 7. (Currently Amended) An infrared source for a gas sensor comprising:
 - a first layer having first transmission characteristics; and
 - a second layer having second transmission characteristics,

wherein a combination of the first and the second transmission characteristics effects a bandpass filter characteristics for an operating frequency range, and

wherein the first and second transmission characteristics are based on absorption of infrared radiation.

- 8. (Previously Presented) The infrared source according to claim 7, wherein the first transmission characteristics with respect to the operating frequency range provides a higher transmission for shorter wavelengths, and the second transmission characteristics with respect to the operating frequency range provides a higher transmission for longer wavelengths.
- 9. (Previously Presented) The infrared source according to claim 7, wherein the first layer includes glass, and the second layer includes one of silicon and germanium.
- 10. (Currently Amended) A gas sensor comprising:

an infrared source;

a detector; and

an interference filter situated between the infrared source and the detector, wherein the infrared source includes:

- a first layer having first transmission characteristics, and
- a second layer having second transmission characteristics,

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wherein a combination of the first and the second transmission characteristics effects a bandpass filter characteristics for an operating frequency range, and wherein the first and second transmission characteristics are based on absorption of infrared radiation.

- 11. (Previously Presented) The gas sensor according to claim 10, wherein the operating frequency range of the infrared source includes exactly one pass frequency of the interference filter.
- 12. (Previously Presented) The gas sensor according to claim 10, wherein the interference filter is a Fabry-Perot filter.